

Serial No. 10/075,284

H&amp;A-107

IN THE CLAIMS

1. (Currently Amended) A therapeutic ultrasound system, comprising:

an ultrasonic transducer for irradiating a therapeutic ultrasound on a region to be treated;

~~setting-up~~ setting ~~up~~ means for setting up an a continuous insonation time of said therapeutic ultrasound, and

~~bubble~~ cavitation detecting means for detecting ~~a bubble~~, during exposure of said therapeutic ultrasound, cavitation caused in a region exposed with said therapeutic ultrasound ~~during exposure of said therapeutic ultrasound,~~

~~wherein said setting up setting means has a function of~~  
~~setting up sets a continuous insonation time according to~~  
~~which said ultrasonic transducer irradiates said therapeutic~~  
~~ultrasound on said exposed region while said exposed region is~~  
~~experiencing said cavitation, from a point of time from of~~  
~~detection of the bubble cavitation by said bubble cavitation~~  
~~detecting means to the end of the exposure of said therapeutic~~  
~~ultrasound.~~

2. (Currently Amended) The therapeutic ultrasound system according to claim 1,

~~wherein said bubble cavitation~~ detecting means has means for detecting an acoustic wave having a frequency twice a

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center frequency of said therapeutic ultrasound transmitted from said ultrasonic transducer.

3. (Currently Amended) The therapeutic ultrasound system according to claim 2, further comprising:

means for generating an alarm when a received signal intensity of harmonics of said therapeutic ultrasound reaches a set value or more.

4. (Currently Amended) A therapeutic ultrasound system, comprising:

an ultrasonic transducer for irradiating a therapeutic ultrasound on a region to be treated; and

detecting means for detecting, during exposure of said therapeutic ultrasound, an audible sound generated in a region exposed with said therapeutic ultrasound during exposure of said therapeutic ultrasound; and

setting means for setting a continuous insonation time according to which said ultrasonic transducer irradiates said therapeutic ultrasound on said exposed region while said exposed region is generating said audible sound, from a point of time of detection of the audible sound by said detecting means.

FEB-04-04 04:15PM FROM- MATTINGLY, STANGER & MALUR, P.C.

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5. (Canceled)

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